

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Agel-HF®
Catalog Number: R3552L
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction of 50 μl.

Packaging Lot Number: 10101078
Expiration Date: 03/2023
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R3552S/L v1.0

Agel-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3552LVIAL	Agel-HF®	10101075	Pass	
B7204SVIAL	CutSmart® Buffer	10097266	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10091035	Pass	

Assay Name/Specification	Lot # 10101078
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	Pass
100 units of Agel-HF™ incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of Agel-HF™ incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Blue-White Screening (Terminal Integrity) A sample of LITMUS28i vector linearized with a 10-fold excess of Agel-HF™, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with Agel-HF™, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	Pass



R3552L / Lot: 10101078

Page 1 of 2

Assay Name/Specification	Lot # 10101078
fragments, >95% can be recut with Agel-HF™.	

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghaa Zhang Production Scientist

18 Mar 2021

Michael Tonello

Packaging Quality Control Inspector

18 Mar 2021



R3552L / Lot: 10101078

Page 2 of 2